

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: William M. CANFIELD

SERIAL NO: New U.S. Application

FILED: Herewith

FOR: GLCNAC PHOSPHOTRANSFERASE OF THE LYSOSOMAL TARGETING PATHWAY

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449 were mentioned in Parent Application, Serial No. 09/636,060, filed August 10, 2000.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

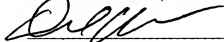
- ☐ Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment form is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



Richard L. Chinn, Ph.D.

Registration No. 34,305



22850

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV		SERIAL NO. NEW APPLICATION	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT			
				WILLIAM M. CANFIELD			
				FILING DATE HEREWITH		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	AA	5,968,502	10/19/99	TRECO ET AL			
	AB	5,055,401	10/08/91	LILJESTROEM ET AL			
	AC	5,202,253	04/13/93	ESMON ET AL			
	AD	5,929,304	07/27/99	RADIN ET AL			
	AE	5,580,757	12/03/96	DESNICK ET AL			
	AE	5,356,804	10/18/94	DESNICK ET AL			
	AC	5,401,650	03/28/95	DESNICK ET AL			
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	AL						
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	AN						
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	AD						
	AR						
	AD						
	AR						
	AS						
	AT						
	AU						
	AV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
AW	SLY, "THE MISSING LINK IN LYSOSOMAL ENZYME TARGETING", THE JOURNAL OF CLINICAL INVESTIGATION, VOL. 105, NO. 5, PAGES 563-564, MARCH 2000						
AX	RAAS-ROTHSCHILD ET AL, "MOLECULAR BASIS OF VARIANT PSEUDO-HURLER POLYDYSTROPHY (MUCOLIPIDOSIS IIIC)", THE JOURNAL OF CLINICAL INVESTIGATION, VOL. 105, NO. 5, PP. 673-681, MARCH 2000						
AY	BAO ET AL, "BOVINE UDP-N-ACETYLGLUCOSAMINE: LYSOSOMAL-ENZYME N-ACETYLGLUCOSAMINE-1-PHOSPHOTRANSFERASE", THE JOURNAL OF BIOLOGICAL CHEMISTRY, VOL. 271, NO. 49, PP. 31446-31451, DECEMBER 6, 1996						
AZ	KORNFELD, "PURIFICATION AND MULTIMERIC STRUCTURE OF BOVINE N-ACETYLGLUCOSAMINE-1-PHOSPHODIESTER α -N-ACETYLGLUCOSAMINIDASE", THE JOURNAL OF BIOLOGICAL CHEMISTRY, VOL. 273, NO. 36, PP. 23203-23210, SEPTEMBER 4, 1998						
Examiner				Date Considered			
<p>*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

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	BA	6,118,045	09/12/045	REUSER ET AL			
	BB	5,939,279	08/17/99	SMITH			
	BC	5,932,211	08/03/99	WILSON ET AL			
	BD	5,929,036	07/27/99	McEVER			
	BE	5,928,928	07/27/99	AERTS			
	BP	5,919,913	07/06/99	NUYENS ET AL			
	BC	5,919,690	07/06/99	KNAP ET AL			
	BH	5,917,122	06/29/99	BYRNE			
	BI	5,916,911	06/29/99	SHAYMAN EET AL			
	BJ	5,916,911	06/29/99	LEE ET AL			
	BK	5,914,231	06/22/99	HENNINK ET AL			
	BL	5,912,146	06/15/99	NISHIMURA ET AL			
	BM	5,911,704	06/15/99	HUMES			
	BN	5,906,817	05/25/99	MOULLIER ET AL			
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		BO					
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		BS					
		BT					
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		BV					
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	BW	Alan D. Elbein et al, "KIFUNENSINE, A POTENT INHIBITOR OF THE GLYCOPROTEIN PROCESSING MANNOSIDASE I", The Journal of Biological Chemistry, Vol. 265, No. 26, Issue of September 15, pp. 15599-15605, 1990.					
	BX	Karen Ghesling MULLIS, et al., "Characterization and Immunolocalization of Bovine N-Acetylglucosamine-1-phosphodiester α -N-Acetylglucosaminidase", The Journal of Biological Chemistry, Vol. 269, No. 3, Issue of January 21, pp.1727-1733, (1994)					
	BX	Jin Kyu LEE, et al., "Purification and Characterization of Human Serum N-Acetylglucosamine-1-phosphodiester α -N-Acetylglucosaminidase", Archives of Biochemistry and Biophysics, Vol. 319, No. 2, June 1, pp. 413-425, (1995)					
	BZ						
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	CA	5,895,833	04/20/99	BERG			
	CB	5,879,937	03/09/99	RONCAROLO			
	CC	5,874,297	02/23/99	WU ET AL			
	CD	5,871,946	02/16/99	LUCAS ET AL			
	CE	5,861,491	01/19/99	NUIJENS ET AL			
	CF	5,858,755	01/12/99	LOWE			
	CG	5,858,744	01/12/99	BAUM ET AL			
	CH	5,858,351	01/12/99	PODSAKOFF ET AL			
	CI	5,854,207	12/29/98	LEE ET AL			
	CJ	5,851,782	12/22/98	HANNUN ET AL			
	CK	5,849,885	12/15/98	NUYENS ET AL			
	CL	5,840,578	11/24/98	DESNICK			
	CM	5,830,916	11/03/98	HANNUN ET AL			
	CN	5,830,850	11/03/98	GELB ET AL			
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		CS					
		CT					
		CU					
		CV					
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	CW	R. O. BRADY, et al., "Modifying Exogenous Glucocerebrosidase for Effective Replacement Therapy in Gaucher", J. Inher. Metab. Dis., Vol. 17, (1994), pp. 510-519					
	CY	Emil D. KAKKIS, et al., "Overexpression of the Human Lysosomal Enzyme α -L-Iduronidase in Chinese Hamster Ovary Cells", Protein Expression and Purification, Vol. 5, (1994), pp. 225-232					
	CY	Ke-Wei ZHAO, et al., "Carbohydrate Structures of Recombinant Human α -L-Iduronidase Secreted by Chinese Hamster Ovary Cells", The Journal of Biological Chemistry, Vol. 272, No. 36, Issue of September 5, pp. 22758-22765 (1997)					
	CZ	Robin J. ZIEGLER, et al., "Correction of Enzymatic and Lysosomal Storage Defects in Fabry Mice by Adenovirus-Mediated Gene Transfer", Human Gene Therapy, Vol. 10, pp. 1667-1682, (July 1, 1999)					
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	DA	5,830,711	11/03/98	BARANY ET AL			
	DB	5,807,943	09/15/98	LEE ET AL			
	DG	5,798,448	08/25/98	CARAS ET AL			
	DJ	5,798,239	08/25/98	WILSON ET AL			
	DE	5,792,647	08/11/98	ROSEMAN ET AL			
	DE	5,773,236	06/30/98	DIWU ET AL			
	DG	5,759,775	06/02/98	CARAS ET AL			
	DH	5,750,172	05/12/98	MEADE ET AL			
	DI	5,741,957	04/21/98	DEBOER ET AL			
	DJ	5,736,360	04/07/98	GAULTON ET AL			
	DK	5,728,381	03/17/98	WILSON ET AL			
	DL	5,723,585	03/03/98	BAKER ET AL			
	DM	5,721,367	02/24/98	KAY ET AL			
	DN	5,719,031	02/17/98	HAUGLAND ET AL			
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	DW	Hualchang SUN, et al., "Retrovirus Vector-Mediated Correction and Cross-Correction of Lysosomal α -Mannosidase Deficiency in Human and Feline Fibroblasts", Human Gene Therapy, Vol. 10, pp. 1311-1319, (May 20, 1999)					
	DX	Aji REUSER, et al., "Lysosomal storage diseases: cellular pathology, clinical and genetic heterogeneity, therapy", Ann Biol Clin, (1994), Vol. 52, pp. 721-728					
	DX						
	DZ						
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	EA 5,716,614	02/10/98	KATZ ET AL				
	EB 5,707,865	01/13/98	KOHN ET AL				
	EC 5,704,910	06/06/98	HUMES				
	ED 5,696,001	12/09/97	HABENSTEIN				
	EE 5,693,622	12/02/97	WOLFF ET AL				
	EF 5,691,181	11/25/97	LOWE				
	EG 5,686,240	11/11/97	SCHUCHMAN ET AL				
	EH 5,679,545	10/21/97	BAKER ET AL				
	EI 5,665,366	09/09/97	RAWLINGS ET AL				
	EJ 5,663,254	09/02/97	LEE ET AL				
	EK 5,663,076	09/02/97	ROSTOKER ET AL				
	EL 5,658,567	08/19/97	CALHOUN ET AL				
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	FA 5,639,939	06/17/97	McCUNE, III				
	FØ 5,639,607	06/17/97	DESNICK ET AL				
	FG 5,633,261	05/27/97	DIME				
	FO 5,633,228	05/27/97	LEWIS ET AL				
	FF 5,627,171	05/06/97	PARK ET AL				
	FF 5,627,073	05/06/97	BAKER ET AL				
	FG 5,624,806	04/29/97	BAKER ET AL				
	FH 5,621,106	04/15/97	DIME				
	FI 5,612,206	03/18/97	VALERIO ET AL				
	FJ 5,585,247	12/17/96	HABENSTEIN				
	FK 5,583,160	12/10/96	IGARASHI ET AL				
	FL 5,578,479	11/26/96	LADERMAN ET AL				
	FM 5,576,424	11/19/96	MAO ET AL				
	FN 5,571,893	11/05/96	BAKER ET AL				
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	GA	5,571,675	11/05/96	BAKER ET AL			
	GB	5,569,648	10/29/96	LEWIS ET AL			
	GC	5,565,362	10/15/96	ROSEN			
	GD	5,554,366	09/10/96	RAWLINGS ET AL			
	GF	5,545,402	08/13/96	WATKINSON			
	GF	5,534,615	07/09/96	BAKER ET AL			
	GG	5,512,471	04/30/96	SMITH			
	GH	5,501,957	03/26/96	DENNIS ET AL			
	GI	5,494,810	02/27/96	BARANY ET AL			
	GJ	5,491,075	02/13/96	DESNICK ET AL			
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	GL	5,466,809	11/14/95	DIME			
	GM	5,449,604	09/12/95	SCHELLENBERG ET AL			
	GN	5,443,986	08/22/95	HAUGHLAND ET AL			
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	HA	5,439,935	08/08/95	RAWLINGS ET AL			
	HB	5,433,946	07/18/95	ALLEN, JR. ET AL			
	HC	5,420,112	05/30/95	LEWIS ET AL			
	HD	5,405,751	04/11/95	RONCAROLO			
	HE	5,382,524	01/17/95	DESNICK ET AL			
	HF	5,366,883	11/22/94	ASADA ET AL			
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	HH	5,344,352	09/06/94	HORNE ET AL			
	HI	5,316,906	05/31/94	HAUGLAND ET AL			
	HJ	5,310,646	05/10/94	WHITLEY			
	HK	5,296,365	03/22/94	OVERBEEKE ET EA			
	HL	5,281,394	01/25/94	HOLUB			
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	IC	5,205,917	04/27/93	KLOCK, JR.			
	ID	5,179,023	01/12/93	CALHOUN ET AL			
	IE	5,166,320	11/24/92	WU ET AL			
	IE	5,143,841	09/01/92	HIRABAYSHI ET AL			
	IG	5,126,247	06/30/92	PALMER ET AL			
	IH	5,089,392	02/18/92	MILLER ET AL			
	II	5,802,778	01/21/92	OVERBEEKE ET AL			
	IJ	5,077,200	12/31/91	HABENSTEIN			
	IK	5,075,231	12/24/91	MOREAU ET AL			
	IL	5,061,025	10/29/91	MATTES ET AL			
	IM	5,060,428	10/29/91	ARTHUR, JR. ET AL			
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		JA 5,001,072	03/19/91	OLSON			
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		JJ 4,749,570	06/07/88	POZNANSKY			
		JK 4,659,817	01/27/87	GALLOP ET AL			
		JL 4,639,420	01/27/87	SCHAFFNER			
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	KA	4,496,722	01/29/85	GALLOP ET AL			
	KB	4,452,794	01/08/85	DURACK			
	KE	4,474,770	10/02/84	LORMEAU ET AL			
	KD	4,452,794	06/05/84	KORT ET AL			
	KE	4,433,946	02/28/84	CHRISTIANSON ET AL			
	KE	4,431,737	02/14/84	OLIVIERI ET AL			
	KG	4,401,759	08/30/83	LORMEAU ET AL			
	KH	4,401,662	08/30/83	LORMEAU ET AL			
	KI	4,332,894	06/01/82	WHISTLER			
	KJ	4,328,215	05/04/82	BUEDING			
	KK	4,195,126	12/23/80	HALL			
	KL	4,156,013	03/22/79	BRUINVELS ET AL			
	KM	4,140,107	02/20/79	LANCEE ET AL			
	KN	3,972,777	08/03/76	YAMADA ET AL			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	KO						
	KP						
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	KW						
	KX						
	KY						
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Examiner					Date Considered		
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LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
				FILING DATE Herewith		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	LA	3,966,555	06/29/76	ARNAUD ET AL			
	LB	3,957,578	05/18/76	NARITA ET AL			
	LC	RE35,770	04/14/98	LORMEAU ET AL			
	LD	5,773,278	06/30/98	SCHUCHMAN ET AL			
	LE	5,798,366	08/25/98	PLATT ET AL			
	LE	5,635,383	06/03/97	WU ET AL			
	LG						
	LH						
	LI						
	LJ						
	LK						
	LL						
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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	LQ						
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	MO						
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	MR						
	MS						
	MT						
	MU						
	MV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	MW	KORNFELD, R. et al. "Molecular Cloning and Functional Expression of Two Splice Forms of Human N-Acetylglucosamine-1-phosphodiester alpha-N-Acetylglucosaminidase" J. Biol. Chem. 12, November 1999. Vol. 274, No. 46, pages 32778-32785					
	MX	CUOZZO, J. W. et al. "Lysine is a Common Determinant for Mannose Phosphorylation of Lysosomal Proteins" J. Biol. Chem. 20. May 1994. Vol. 269. No. 20. Pages 14490-14496.					
	MY	KORNFELD, S. "Trafficking of Lysosomal Enzymes in Normal and Disease States", J. Clin. Invest., Vol. 77, January 1986, pp. 1-6.					
	MZ	KORNFELD, S. "Lysosomal Enzyme Targeting", Biochemical Society Transactions, Jubilee Lecture Delivered on 19 December 1989, Vol. 16. pp. 367-374					
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
		NO 99/31117	06/24/99	WIPO			
		NP					
		NO					
		NR					
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)							
	NT	Ke-Wei ZHAO, et al., "Purification and characterization of human lymphoblast N-acetylglucosamine-1-phosphotransferase", <i>Glycobiology</i> , Vol. 2, no. 2, pp. 119-125, 1992					
	NT	Takahiro NAGASE, et al., "Prediction of the Coding Sequences of Unidentified Human Genes. XV. The Complete Sequences of 100 New(cDNA Clones from Brain Which Code for Large Proteins <i>in vitro</i> ", <i>DNA Research</i> , Vol. 6, pp. 337-345, 1999					
	NU	XP-002226188, "KIAA1208 protein (Fragment)", From Takahiro NAGASE, et al., "Prediction of the Coding Sequences of Unidentified Human Genes. XV. The Complete Sequences of 100 New(cDNA Clones from Brain Which Code for Large Proteins <i>in vitro</i> ", <i>DNA Research</i> , Vol. 6, pp. 337-345, 1999					
	NV	XP-002226187, "Basic domain/leucine zipper transcription factor (Fragment), From CORDES, et al., "The mouse segmentation gene <i>kr</i> encodes a novel basic domain-leucine zipper transcription factor" (1994), <i>Cell</i> , Vol. 7, No. 9, pp.1025-1034				<input type="checkbox"/> Additional References sheet(s) attached	
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	OW	Theodore PAGE, et al., "Purification and characterization of human lymphoblast N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase", Glycobiology, Vol. 6, no. 6, pp. 619-626, 1996					
	OX	Thomas J. BARANSKI, et al., "Lysosomal Enzyme Phosphorylation", The Journal of Biological Chemistry, Vol. 267, No. 32, Issue of November 15, pp. 23342-23348, 1992					
	OY						
	OZ					<input type="checkbox"/> Additional References sheet(s) attached	
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	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	PO					
	PP					
	PQ					
	PR					
	PS					
	PT					
	PU					
	PV					
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)						
	PW	Ritva TIKKANEN, et al., "Several cooperating binding sites mediate the interaction of a lysosomal enzyme with phosphotransferase", The EMBO Journal, vol. 16, No. 22, pp. 6684-6693, 1997				
	PX	Fumito MATSUURA, et al., "Human alpha-galactosidase A: characterization of the N-linked oligosaccharides on the intracellular and secreted glycoforms overexpressed by Chinese hamster ovary cells", Glycobiology, vol. 8, no. 4, pp. 329-339, 1998				
	PY	Shiroh MAGUCHI, et al., "Elevated Activity and Increased Mannose-6-phosphate in the Carbohydrate Moiety of Cathepsin D from Human Hepatoma", Cancer Research, Vol. 48, pp. 362-367, January 15, 1988				
	PZ	Norman W. Barton, et al., "Therapeutic response to intravenous infusions of glucocerebrosidase in a patient with Gaucher disease", Proc. Natl. Acad. Sci. USA, Vol. 87, pp. 1913-1916, March 1990				<input type="checkbox"/> Additional References sheet(s) attached
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